

# Patent Abstracts of Japan

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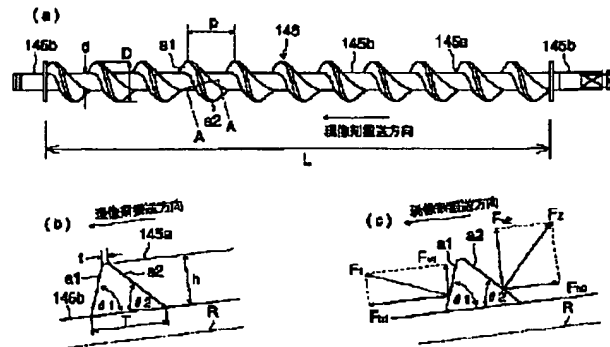
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TITLE : DEVELOPING METHOD, DEVELOPING  
DEVICE AND IMAGE FORMING  
DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To shorten the time for perfectly stirring and mixing replenishment toner and developer, to shorten the rise time of the electrified amount of the developer, and to prevent image defect caused by the lowering of image density and the occurrence of toner scattering caused by the lowering of the electrified amount even in the case of consecutively printing many sheets of paper.

SOLUTION: As to this developing device in which a stirring screw 145 stirring and carrying the developer to a developer carrier 141 opposed to an image carrier 10 carrying an electrostatic latent image through a developing area is rotatably provided; the screw 145 is constituted of a spiral blade part 145a having nearly trapezoid cross section and a rotary shaft part 145b, and an angle  $\theta 1$  formed by a spiral slant face a1 on a side facing in the developer carrying direction of the spiral blade part and a rotating center line is set larger than an angle  $\theta 2$  formed by a spiral slant face a2 on a side facing in a direction opposite to the developer carrying direction of the spiral blade part and the rotating center line.

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